



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/539,874

DATE: 06/06/2006

TIME: 10:26:06

Input Set : A:\PLA_US_0502a.ST25.txt

Output Set: N:\CRF4\06062006\J539874.raw

3 <110> APPLICANT: Plath, Thomas
 4 Reule, Matthias
 5 Kaiser, Simone
 6 Lichtner, Rosemarie
 7 Heiden Constanios-Velez, Esmeralda
 9 <120> TITLE OF INVENTION: USE OF A TRPM8-ACTIVATING SUBSTANCE FOR THE TREATMENT OF
 TUMORS
 11 <130> FILE REFERENCE: 7003/40, PLA/US/0502
 13 <140> CURRENT APPLICATION NUMBER: US 10/539,874
 C--> 14 <141> CURRENT FILING DATE: 2005-06-17
 16 <150> PRIOR APPLICATION NUMBER: DE 10259619.0
 17 <151> PRIOR FILING DATE: 2002-12-18
 19 <160> NUMBER OF SEQ ID NOS: 17
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 1000
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 atccttgggt gaaagaaaat cctgcttgac aaaaaccgtc acttaggaaa agatgtcctt 60
 31 tcgggcagcc aggctcagca tgaggaacag aaggaatgac actctggaca gcacccggac 120
 33 cctgtactcc agcgctctc ggagcacaga cttgtcttac agtggaaagcg acttggtaa 180
 35 ttttattcaa gcaaattta agaaacgaga atgtgtcttc tttaccaaag attccaaggc 240
 37 cacggagaat gtgtcaagt gtggctatgc ccagagccag cacatggaa gcacccagat 300
 39 caaccaaagt gagaaatgga actacaagaa acacaccaag gaatttccta ccgacgcctt 360
 41 tggggatatt cagtttggaa cactggggaa gaaagggaa tatatacgtc tgtcctgcga 420
 43 cacggacgcg gaaatcctt acgagctgct gacccagcac tggcacctga aaacacccaa 480
 45 cctggtcatt tctgtgaccg ggggcgccaa gaacttcgccc ctgaagccgc gcatgcgcaa 540
 47 gatcttcagc cggctcatct acatcgccca gtccaaaggt gcttggattc tcacgggagg 600
 49 caccattat ggcctgatga agtacatcggt ggaggtgggt agagataaca ccatcagcag 660
 51 gagttcagag gagaatattt tgccatttgg catagcagct tggggcatgg tctccaaccg 720
 53 ggacaccctc atcaggaatt gcgtatgtg ggtaccgggt ggacaggagg aggtctgcta 780
 55 ggtcacatgg aagaaagacc atggcatggg cctgtggctt gaaccctggg gctctgtat 840
 57 ggagccagcc agatcatggg gaagtctgccc ttcaaggag tgccttggg accttaaagg 900
 59 aattgaaaac aaggatgacg tacctaatta actgtggga aagagttaa aatgaatgtt 960
 61 ttgttcattt aaatgtgttc tcagcaaaaa aaaaaaaaaa 1000
 64 <210> SEQ ID NO: 2
 65 <211> LENGTH: 391
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Homo sapiens
 69 <400> SEQUENCE: 2
 70 gcccactact actaccaat tcacggccgg tcgactgaag acttggcaga 60
 72 acagctgctg gtcttattccgtt gtgaagcttg ggggtggaaagc aactgtctgg agctggcggt 120
 74 ggaggccaca gaccaggatt tcatcgccca gcctgggtc cagaattttc tttctaagca 180

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/539,874

DATE: 06/06/2006
TIME: 10:26:06

Input Set : A:\PLA_US_0502a.ST25.txt
Output Set: N:\CRF4\06062006\J539874.raw

76 atgttatgga	gagatttccc	gagacaccaa	gaactggaag	attatcctgt	gtctgttat	240
78 tatacccttg	gtgggctgtg	gctttgtatc	attaggtac	aaaccaaggc	acataatcg	300
80 gtgtgagtgt	gtgtgccagt	gtgtgtacat	gcatccacat	atgtgtgctc	tcatgtaaat	360
82 gataaaaaag	cctggaacctt	aaaaaaaaaa	a			391
85 <210>	SEQ ID NO:	3				
86 <211>	LENGTH:	2136				
87 <212>	TYPE:	DNA				
88 <213>	ORGANISM:	Homo sapiens				
90 <400>	SEQUENCE:	3				
91 ggactacatt	atttcactc	taagattgat	ccacatTTT	actgttaagca	gaaacttagg	60
93 agccaagatt	ataatgctgc	agaggatgct	gatcgatgtg	ttcttcttcc	tgttccttctt	120
95 tgcggtgtgg	atggtggcct	ttgcgtggcc	aggcaaggga	tccttaggca	aatgagcag	180
97 cgctggaggt	ggatattccg	ttcggtcatc	tacgagccct	acctggccat	gttcggccag	240
99 gtgcccaagt	acgtggatgg	taagcctgac	ttggctcaga	tgaaaacagc	ttggaggagg	300
101 catttgctcc	ctgaaccaac	ccccagggct	gcccccggaga	ccgcacttca	gaagcacgcg	360
103 cgtgaaacgg	agtccaaat	aacagagtac	cacgtatgac	tttgccttact	gcaccttcac	420
105 tggaatgag	tccaaGCCTA	ctgtgtgtgg	agctggatga	gcacaacctg	ccccggttcc	480
107 ccgagtggat	caccatcccc	ctgggtgtgca	tctacatgtt	atccaccaac	atcctgctgg	540
109 tcaacctgct	ggtcGCCATG	tttggctaca	cggtggcac	cgtccagaga	acaatgacca	600
111 ggtctggaaag	ttccagaggt	acttcctggt	gcaggagttac	tgcagccccc	tcaatatccc	660
113 ctcccccttc	atcgcttgc	cttacttcta	catggtggtg	aagaagtgt	tcaagtgttg	720
115 ctgcaaggag	aaaaacatgg	agtcttctgt	ctgctgtttc	aaaaatgaaag	acaatgagac	780
117 tctggcatgg	gagggtgtca	tgaaggaaaa	ctaccttgtc	aagatcaaca	caaaagccaa	840
119 cgacacctca	gagggaaatga	ggcatcgatt	tagacaactg	gatacaaagc	ttaatgatct	900
121 caagggtctt	ctgaaaagaga	ttgctaataa	aatcaaataa	aactgtatga	actctaattgg	960
123 agaaaaatct	aattatagca	agatcatatt	aaggaaatgct	gatgaacaaat	tttgctatcg	1020
125 actactaaat	gagagattt	cagacccttg	ggtacatgg	ggatgatttt	aaatcacccct	1080
127 agtgtgctga	gaccttgaga	ataaaagtgt	tgattggttt	catacttgaa	gacggatata	1140
129 aaggaagaat	atttcctta	tgtgtttctc	cagaatggtg	cctgtttctc	tctgtgtctc	1200
131 aatgcctggg	actggagggt	gatagttaa	gtgtgttctt	accgcctcct	ttttccttta	1260
133 atcttatttt	tgtgaacac	atata>tagga	gaacatctat	cctatgaata	agaacctgg	1320
135 catgctttac	tcctgtattt	ttatTTGTT	catttccat	tgattctcta	ctttccctt	1380
137 ttttgtatta	tgtgactaat	tagttggcat	attgtaaaaa	gtctctcaaa	ttaggcccaga	1440
139 ttctaaaaca	tgctgcagca	agaggacccc	gctctttca	ggaaaagtgt	tttcattttct	1500
141 caggatgctt	cttacctgtc	agaggagggt	acaaggcagt	ctttgcct	cttgactca	1560
143 ccaggctct	attgaaggaa	ccaccccccatt	tcctaaatat	gtaaaagtc	gccaaaaatg	1620
145 caaccttcaa	aggcactact	gactttgttc	ttattggata	ctccttttat	ttatttatttt	1680
147 tccattaaaa	ataatagctg	gctattatag	aaatttagac	catacagaga	tgtagaaaga	1740
149 acataaatttgc	tcccccattac	cttaaggtaa	tcactgctaa	caatttctgg	atggtttttc	1800
151 aagtcttattt	tttttctatg	tatgtctcaa	ttctctttca	aaattttaca	gaatgttac	1860
153 atactacata	tatactttt	atgtaaagctt	tttcaacttag	tatTTTatca	aatatgttt	1920
155 tattatatttgc	atagccttct	taaacattat	atcaataatt	gcataatagg	caacctctag	1980
157 cgattaccat	attttgctc	attgaaggct	atctccagtt	gatcattggg	atgagcatct	2040
159 ttgtgcatt	atccttattgc	tgtatttggg	aaaatttcc	aaggtagat	tccaataaat	2100
161 atcttatttat	tattcaataat	aaaaaaaaaa	aaaaaa			2136
164 <210>	SEQ ID NO:	4				
165 <211>	LENGTH:	1813				
166 <212>	TYPE:	DNA				
167 <213>	ORGANISM:	Homo sapiens				

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/539,874

DATE: 06/06/2006

TIME: 10:26:06

Input Set : A:\PLA US 0502a.ST25.txt

Output Set: N:\CRF4\06062006\J539874.raw

169 <400> SEQUENCE: 4

170	gctagaattt	accagtaagc	catctgatt	cccagtaagc	catcctgggc	ttttctttgt	60
172	tgaaagcttt	ttgattgctg	atttcattt	tcttcattt	ttgttgtct	gttcaggctt	120
174	tgtatttctt	cttgattcag	gtctttgtaa	gttgcattt	tctggatat	ttccatttt	180
176	tcttaggttgc	ccaccttgc	tgcatataat	tgttcataact	agccccctt	gatccccctt	240
178	atttctatgc	cctctgttgc	aagggtgtct	ttctcatttc	tgactgtatt	tatttgtatc	300
180	ttcttccttt	tctaaaagg	tttgcattt	ttgtttatct	tttcaaaaaaa	ccaactctta	360
182	cttcaatga	tttttttcc	cattgtttt	caactcttct	tttcaaaaaat	gtatttgtct	420
184	cttggagttt	ttgctctact	ttaaacagct	tactaaagt	attttactat	taacaaatac	480
186	aaggctctt	caaagctcc	tatagggaat	acaaaatttc	cccatctcct	tataccagaa	540
188	aacaaagttt	tttacaattt	atcttaagtc	tcttaatgtat	ctcaagggtc	ttctgaaaga	600
190	gattgctaatt	aaaatcaaatt	aaaactgtat	gaactctaatt	ggagaaaaat	ctaatttatag	660
192	caagatcata	ttaaggaatg	ctgatgaaca	attttgcatt	cgactactaa	atgagagatt	720
194	ttcagacccc	tgggtacatg	gtggatgatt	ttaaatcacc	ctagtgtgt	gagaccttga	780
196	gaataaagtgt	tgtgatttgc	ttcatacttg	aagacggata	taaaggaaga	atatttcctt	840
198	tatgtgttcc	tccagaatgg	tgcctgtttc	tctctgtgtc	tcaatgcctg	ggactggagg	900
200	ttgatagttt	aagtgtgttc	ttaccgcctc	cttttcctt	taatcttatt	tttgatgaac	960
202	acatatata	gagaacatct	atcctatgaa	taagaacctg	gtcatgcattt	actcctgtat	1020
204	tgttatttttgc	ttcatttcca	attgatttctc	tacttttccc	ttttttgtat	tatgtgacta	1080
206	attagttggc	atattgtttaa	aagtctctca	aatttaggcc	gattctaaaa	catgctgcag	1140
208	caagaggacc	ccgctctctt	caggaaaagt	gttttcattt	ctcaggatgc	ttcttacctg	1200
210	tcagaggagg	tgacaaggca	gtctcttgc	ctcttggact	caccaggctc	ctattgaagg	1260
212	aaccaccccc	attcctaaat	atgtgaaaag	tcgccccaaa	tgcaaccttgc	aaaggcacta	1320
214	ctgactttgt	tcttatttgc	tactccttctt	atttatttatt	tttccatcaa	aaataatagc	1380
216	tggcttattat	agaaaatttgc	accatacaga	gatgtagaaa	gaacataaaat	tgtccccatt	1440
218	accttaaggt	aatcactgtc	aacaatttttgc	ggatggtttt	tcaagtctat	tttttttctt	1500
220	tgtatgtctc	aattctcttttgc	aaaaatttttgc	cagaatgttgc	tcataactaca	tatataacttt	1560
222	ttatgttgc	tttttcttgc	agtattttat	caaataatgtt	tttattttat	tcatacgctt	1620
224	cttaaacattt	atatacaataa	ttgcataata	ggcaaccttgc	agcgatttacc	ataattttgc	1680
226	tcattgttgc	ctatctccat	ttgatcatttgc	ggatgagcat	ctttgtgcatt	gaatcctatt	1740
228	gctgttatttgc	ggaaaatttttgc	ccaagggttgc	attccaataaa	atatcttatttgc	attattcaat	1800
230	attaaaaaaaaaa	aaa					1813

233 <210> SEO ID NO: 5

234 <211> LENGTH: 986

235 <212> TYPE: DNA

236 <213> ORGANISM: *Homo sapiens*

238 <400> SEQUENCE: 5

239 acctggctaa tttttq

```

241 ctcgaactcc tgacctcagg tgatggcct gcctcgccct cccaagtgtt gggattacag 120
243 gctgtacca ccgtgtccgg cctcagggtt tcttaattgc agagcttagt gtgtatact 180
245 ttctgaaggat atctaacaagg gaataggggc aaacaaatag ctgcatactc ctgtcatagt 240
247 ccaccagcta tgatctgctt aaaacagctg cctgtggtc gccatgtttg gctacacgg 300
249 gggcacccgtc caggagaaca atgaccaggat ctggaaatgtt cagaggtact tcctggtgca 360
251 ggagttactgc agccgcctca atatcccctt ccccttcatc gtcttcgctt acttctacat 420
253 ggtggtaag aagtgttca agtgttgcgt caaggagaaa aacatggagt ctctgtctg 480
255 ctgtttcaaa aatgaagaca atgagactct ggcattggag ggtgtcatga aaaaaacta 540
257 ctttgtcaag atcaacacaa aaaccaacga cacctcagag gaaatgagggc atcgatttag 600
259 acaactggat acaaagatca tattaaggaa tgctgtgaa caatggct atcgactact 660
261 aaatqaqqa ttttcaqacc cctqqqtaca tqqtqqatqa ttttaaatca ccctaqtgtq 720

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/539,874

DATE: 06/06/2006
TIME: 10:26:07

Input Set : A:\PLA_US_0502a.ST25.txt
Output Set: N:\CRF4\06062006\J539874.raw

263	ctgagacatt	gagaataaag	tgtgtgattt	gtttcataact	tgaagacgga	tataaaggaa	780
265	aatatttcc	tttatgtgtt	tctccagaat	ggtgccctgtt	tctctctgtt	tctcaatgcc	840
267	tgggactgga	ggttgatagt	ttaagtgtgt	tcttaccgcc	tccttttcc	ttaatctta	900
269	tttttgcata	acacatata	aggagaacat	ctatcctatg	aataagaacc	tggtcatgt	960
271	ttaaaaaaaa	aaaaaaaaa	aaaaaaa	aaaaaa			986
274	<210>	SEQ ID NO:	6				
275	<211>	LENGTH:	929				
276	<212>	TYPE:	DNA				
277	<213>	ORGANISM:	homo sapiens				
279	<400>	SEQUENCE:	6				
280	ggcacgaggc	tgcctttctc	caccagagac	tcttcctcag	ggaggactt	gtgaatttt	60
282	tccaagcaaa	tttaagaaa	cgagaatgt	tcttcattac	caaagattcc	aaggccacgc	120
284	tcaatgaaat	ccttcattcc	tgtccacacc	atcgtgctt	tcagggagaa	tgtgtgcaag	180
286	tgtggctatg	cccagagcca	gcacatggaa	ggcacccaga	tcaaccaaag	tgagaaatgg	240
288	aactacaaga	aacacaccaa	ggaatttcc	accgacgcct	ttggggat	tcagtttgag	300
290	acactgggaa	agaaaggaa	gtatatacgt	ctgtcctgcg	acacggacgc	ggaaatcctt	360
292	tacgagctgc	tgaccaggca	ctggcacctg	aaaacaccca	acctggtcat	ttctgtgacc	420
294	ggggcgcaca	agaacttcgc	cctgaagccg	cgcatgcgc	agatttcag	ccgctcatc	480
296	tacatcgcc	agtccaaagg	tgcttggatt	ctcacggag	gcacccatta	tggccgatga	540
298	agtagatcg	ggaggtgg	agagataaca	ccatcagcag	gagttcagag	gagaatattg	600
300	tgcatttgg	catagcagct	tggggcatgg	tctccaacc	ggacaccctc	atcaggaatt	660
302	gcgtatgt	ggtaccgg	ggacaggagg	aggctgt	ggtcacatgg	aagaaagacc	720
304	atggcatgg	cctgtggc	gaaccctgg	gctctgt	ggagccagcc	agatcatggg	780
306	gaagtctgc	tttcaaggag	tgccttgg	acctaaagg	aattgaaaac	aaggatgacg	840
308	tacctaatta	actgctgg	aagagttaac	aatgaatgtt	ttgttcatta	aaatgtgtt	900
310	tcagcaatct	aaaaaaaaa	aaaaaaaaa				929
313	<210>	SEQ ID NO:	7				
314	<211>	LENGTH:	735				
315	<212>	TYPE:	DNA				
316	<213>	ORGANISM:	homo sapiens				
318	<400>	SEQUENCE:	7				
319	ttggccttca	gagcaaagaa	ggagatctgc	atctctacac	ccagatggag	aataccctc	60
321	actttgcagc	tgaaggcaat	gtggagttt	tgttattttt	taccatttt	ttttatttt	120
323	tcttcacaa	aaacctacta	agtcaatgtt	atgattccat	gctgcaaaca	aggaaattaa	180
325	gcctcagcaa	tcctgatatt	ctggAACAGA	acaatccctt	aagagattt	gtattgaaga	240
327	ccttgttgg	aatggatcag	acattgccc	gaccactgtc	cagacccaa	actgaaataa	300
329	cccgaggag	cttcgtgtt	acctccatc	ggcgttcatt	ggtaaaatc	tcatcattgg	360
331	ctaagtccag	ctgggtccac	tccagcagaa	gcttcagctg	cccattccag	ttatcattgt	420
333	cttgctact	ggtgctgaag	gctgtgagag	ggcaggaaaa	gactcaactc	accaaaggct	480
335	cagaaataag	agtgagaacc	attcagtgt	gccaatttac	agagctttt	atcacagatc	540
337	gtatttgtt	ttaaatgg	tctaccagaa	gaagacagcc	agctttcgat	actaacaac	600
339	cacaatggaa	gatggccgt	tttacatgt	cctttagcat	gttaaagggt	acataaccaca	660
341	ttgaccctgg	cagaagcatt	cctgatgtt	tggaaaaatt	aagagaaata	acagttctt	720
343	ggcaataaaa	aaaaa					735
346	<210>	SEQ ID NO:	8				
347	<211>	LENGTH:	84				
348	<212>	TYPE:	PRT				
349	<213>	ORGANISM:	homo sapiens				
351	<400>	SEQUENCE:	8				

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/539,874

DATE: 06/06/2006

TIME: 10:26:07

Input Set : A:\PLA_US_0502a.ST25.txt
 Output Set: N:\CRF4\06062006\J539874.raw

353 Gly Leu Gln Ser Lys Glu Gly Asp Leu His Leu Tyr Thr Gln Met Glu
 354 1 5 10 15
 357 Asn His Pro His Phe Ala Ala Glu Gly Asn Val Glu Leu Met Leu Phe
 358 20 25 30
 361 Tyr Thr Ile Tyr Phe Tyr Tyr Leu Phe Thr Thr Asn Leu Leu Ser Gln
 362 35 40 45
 365 Cys Tyr Asp Ser Met Leu Gln Thr Arg Lys Leu Ser Leu Ser Asn Pro
 366 50 55 60
 369 Asp Ile Leu Glu Gln Asn Asn Pro Leu Arg Asp Leu Val Leu Lys Thr
 370 65 70 75 80
 373 Leu Leu Glu Met
 377 <210> SEQ ID NO: 9
 378 <211> LENGTH: 249
 379 <212> TYPE: DNA
 380 <213> ORGANISM: Homo sapiens
 382 <400> SEQUENCE: 9
 383 gtaccgggtgg gacaggagga ggtctgctag gtcacatggaa agaaagacca tggcatgggc 60
 385 ctgtggccttg aaccctgggg ctctgtgatg gagccagcca gatcatgggg aagtctgcct 120
 387 ttcaaggagt gccttggga ccttaaaga attaaaaaca aggatgacgt acctaattaa 180
 389 ctgctgggaa agagtttaca atgaatgttt tgttcattaa aatgtgttct cagaaaaaaaa 240
 391 aaaaaaaaaa 249
 394 <210> SEQ ID NO: 10
 395 <211> LENGTH: 115
 396 <212> TYPE: DNA
 397 <213> ORGANISM: Homo sapiens
 399 <400> SEQUENCE: 10
 400 gtacaaaacca aggacacataa tcgtgtgtga gtgtgtgtgc cagtgtgtgt acatgcattcc 60
 402 acatatgtgt gctctcatgt aaatgattaa aaaggctggaa actttaaaaaaa aaaaa 115
 405 <210> SEQ ID NO: 11
 406 <211> LENGTH: 127
 407 <212> TYPE: DNA
 408 <213> ORGANISM: Homo sapiens
 410 <400> SEQUENCE: 11
 411 gtaaggctga cttggctcag atggaaacag cttggaggag gcatttgctc cctgaaccaa 60
 413 cccccagggc tgccccggag accgcacttc agaagcacgc gcgtgaaacg gagtccaaca 120
 415 taacaga 127
 418 <210> SEQ ID NO: 12
 419 <211> LENGTH: 571
 420 <212> TYPE: DNA
 421 <213> ORGANISM: Homo sapiens
 423 <400> SEQUENCE: 12
 424 gctagaattt accagtaagc catctgattt cccagtaagc catcctgggc ttttctttgt 60
 426 tgaagcttt ttgattgctg attttcattt ttttcattt ttgtttgtct gttcaggctt 120
 428 tgtatattctt cttgattcag gtctttgtaa gttgtacatt tctggatattt ttcattttct 180
 430 tcttaggttgt ccacccgtt tgcatataat tggttataact agccccccttct gatcccttcc 240
 432 atttctatgc cctctgtgt aagggtgtct ttctcatttc tgactgtatt tatttgtatc 300
 434 ttcttccttt tcttaaaaagg ttgttattt ttgttatct tttcaaaaaaaaaa ccaactctta 360
 436 ctttcaatga tttttttcc cattgtttt caactctt ttttaaaaat gtatttgtct 420
 438 ctggagttt ttgctctact ttaaacagct tactaaagtc atttactat taacaaatac 480

VERIFICATION SUMMARY DATE: 06/06/2006
PATENT APPLICATION: US/10/539,874 TIME: 10:26:08

Input Set : A:\PLA_US_0502a.ST25.txt
Output Set: N:\CRF4\06062006\J539874.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date